RESEARCH DEPARTMENT

CARDIGAN V.H.F. RELAY STATION: SUMMARY OF INSTALLATION

Technological Report No. RA-19/6 UDC 621.396.712 1968/17

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for Head of Research Department

R.D.C. Thoday, M.I.E.R.E.

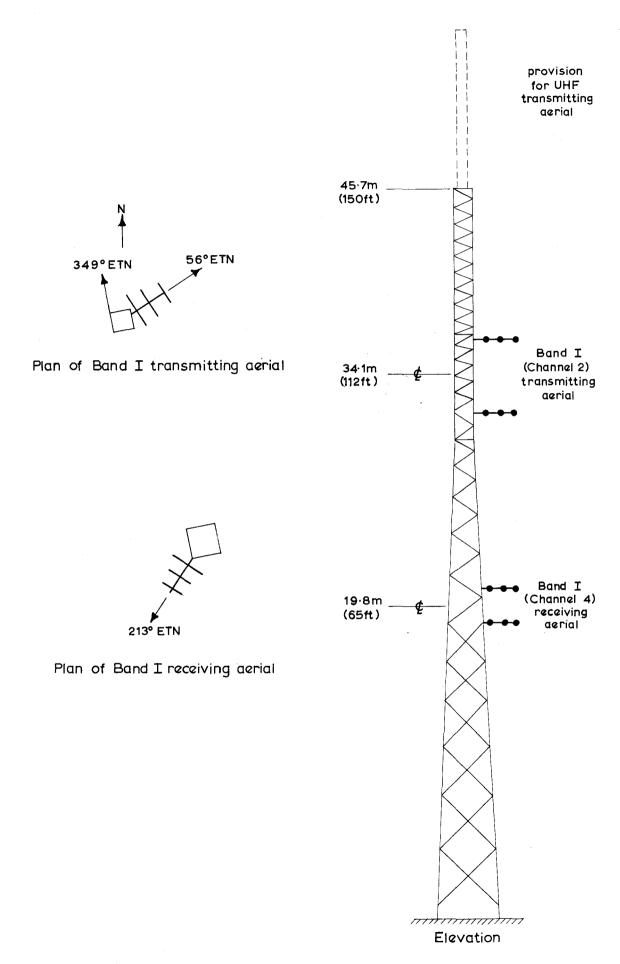


Fig. 1. General arrangement of aerials on tower.

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BRITISH BROADCASTING CORPORATION ENGINEERING DIVISION RESEARCH DEPARTMENT

TECHNOLOGICAL REPORT 1968/17 RA-19/6

May

NO.

TRANSMITTING AERIAL

NUMBER OF TIERS: 2

TRANSMITTING: RPC 2603

RADIATION CHARACTERISTICS

POLARIZATION: Horizontal

MEAN E.R.P.: 8.7W

MAXIMUM E.R.P.: LLW

FEEDERS

DESCRIPTION: Single three-element

Yagi per tier

MEAN HEIGHT: 34.1 m (112 ft) a.g.1.

V.H.F. RELAY STATIONS: SUMMARY OF INSTALLATION **TELEVISION**

NAME: CARDIGAN

6th February 1967 SERVICE TRANSMISSIONS COMMENCED:

SITE DATA

LOCATION: Approximately 3.6 km (2.2 miles)

south-west of Cardigan

GRID REFERENCE: SN 154441

HEIGHT, A.O.D.: 176.8 m (580 ft)

SUPPORT STRUCTURE

TYPE:

Self-supporting tower

OVERALL HEIGHT: 45.7 m (150 ft)

GENERAL ARRANGEMENT

1 FIGURE:

FREQUENCIES

BAND:

I

CHANNEL:

VISION CARRIER OFFSET: +16.875 kHz

SOUND CARRIER OFFSET: +16.875 kHz

TRANSMITTER

POWER: 10 watts (translator)

PROGRAMME SOURCE

H.R.P.:

PARENT: Haverfordwest

Fig.2

obtained by direct reception

NOTES:

1. Detailed information is given on the following drawings held by BBC Transmitter Planning and Installation Department:

PID 9542.2.144 General Arrangement of Aerials on 150 ft Tower

PID 8732.2.4.A2 Band I Yagi, Type 353P

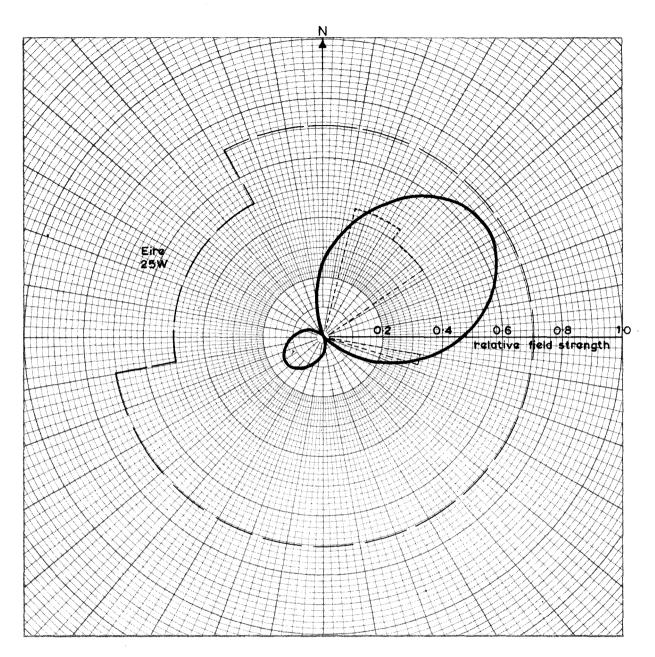


Fig.2. Band I templet and horizontal radiation pattern.

————— Maximum permissible E.R.P.
----- Minimum desirable E.R.P.
Unit field corresponds to an E.R.P. of 100W